THE MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT AND FORESTS (SHRI NAMO NARAIN MEENA) : (a) and (b) To prevent growing pollution in the river Yamuna, Central Government has started the project of Yamuna Action Plan (YAP) Phase-II from December 1, 2004. The project has been approved at a cost of Rs. 624 crore and is being implemented in the States of Haryana, UP and Delhi under the JBIC's Overseas Development Assistance loan. The cost of works under YAP Phase-II project is to be shared between Government of India and State Governments in the ratio of 85:15 *i.e.* Rs. 530 crore Central share and Rs. 94 crore State's share. the cost of works to be executed under YAP-II project in the three States comprises of ; Delhi-Rs. 387.17 crore, U.P.-Rs. 124.13 crore, Haryana-Rs. 62.50 crore and Miscellaneous (Water Quality Monitoring, Capacity Building, Consultancy etc.)-Rs. 50.20 crores. The main components to be implemented under the project are:

Delhi	-	Sewage Treatment Plants (135 million litres) per day capacity (mld) new and 324 mld capacity rehabilitation
	-	Rehabilitation/replacement of trunk sewers (30.82 kms)
U.P.	-	Sewage Treatment Plants (54 mld capacity new)
	-	Construction of Sewer Lines/Rising Mains (85.7 kms)
Haryana	-	Interception & Diversion of Sewer Lines (73 kms) and improvement in efficiencies of existing Sewage Treatment Plants.

The YAP-II project is scheduled to be completed in September, 2008.

In addition to the above, the Government of National Capital Territory of Delhi has also taken up sewerage and sewage treatment works along with non-sewerage works on a large scale out of its own plan funds.

Pollution in Ganga River

†620. SHRI KRIPAL PARMAR: Will the Minister of ENVIRONMENT AND FORESTS be pleased to state:

(a) whether it is a fact that as per the survey conducted by the Central Pollution Control Board, Ganga is the most polluted river in the country;

(b) if so, the factors responsible for it;

† Original notice of the question was received in Hindi.

(c) the condition of other rivers in the country and the places where rivers are more polluted, State-wise; and

(d) the steps taken/being taken by Government to check pollution in these rivers?

THE MINISTER OF STATE IN THE MINISTRY OF ENVIRONMENT AND FORESTS (SHRI NAMO NARAIN MEENA): (a) and (b) As per a study conducted by the central Pollution Control Board (CPCB), river Ganga is designated as moderately polluted river in the country due to enough dilution available in most of its stretches for waste assimilation. The river is polluted in segments downstream of large townships located along its bank due to domestic and industrial discharges. The water quality of the river shows the Biochemical Oxygen Demand (BOD), an indicator of organic pollution and bacterial parameters violating the designated-best-use criteria for bathing quality in some stretches of the river. The level of Dissolved Oxygen (DO) however, remains generally higher than the desired limits throughout its length.

(c) Based on the data of National Water Quality Monitoring Network, the CPCB has identified 71 polluted stretches on different rivers in the country. A list of polluted river stretches in various states is enclosed as Statement (*See* below).

(d) The Ministry launched the Ganga Action Plan (GAP) for pollution abatement of the river in 1985, the Phase-I of which was completed on 31-3-2000. Under this programme, works were taken up in 25 Class-I towns in U.P., Bihar and West Bengal and a sewage treatment capacity of 835 million liters per day was created. However, the industrial pollution has been tackled at source through the implementation of legal provisions under the Water (Prevention and Control of Pollution) Act, 1974 and the Environment (Protection) Act, 1986.

The GAP-I was further extended to GAP Phase-II which covered the main tributaries along with the river Ganga. The programme was subsequently extended to other Indian rivers in the form of National River Conservation Plan (NRCP). In 1996, the GAP Phase-II was merged with NRCP which presently covers pollution abatement works in 160 towns spread over 20 states and 34 rivers in the country.

Statement

Pollution in Ganga River

List of 71 Polluted River Stretches

River	Polluted Stretch	Source/Town	Critical Parameters (in mg/l)	State
1	2	3	4	5
1. Godavari	* Polavaram to D/S of Rajamundary	Rajamundary & Polavaram Sewage	BOD-6-12	Andhra Pradesh
2. Nagavalli	* Nagavalli along Thotapalli Regulator	Industrial &Domestic water from Rayagada	BOD-6-10	Andhra Pradesh
3. Musi	* D/S of Hyderabad	Hyderabad-Secuanderabad-Sewage	BOD-16-44	Andhra Pradesh
4. Kalong	* Elengabeel System	Nagaon-Sewage	BOD-10-70	Assam
5. Bharalu	* D/S Guwahati	Guwahati Sewage	BOD-38	Assam
6. Yamuna	* Wazirabad to Okhla	Industrial & Domestic Waste from Delhi	BOD-6-77	Delhi
7. Subarnrekha	* Ranchi to D/S of Jamshedpur	Industrial & domestic waste from Ranchi & Jamshedpur	BOD>6	Jharkhand
8. Sabarmati	* Ahmedabad to D/S of Vautha	Discharge from Meshwa & Ahemadabad	BOD-56-504	Gujarat
9. Amlakhadi	* Along Ankeshwar	Industrial & Domestic waste from Ankeshwar	BOD-138-920, Ammonia-117.6-201.60	Gujarat
10. Shedi	* Along Kheda	Kheda Sewage	BOD-8-19	Gujarat
11. Damanganga	* Vapi D/S to Confl. with sea	Industrial & Domestic waste from Vapi, Salvas, Daman & Kachigaon	BOD-9-10	Gujarat
12. Ambika	* Billimora D/S	Billimora Sewage	BOD-18	Gujarat
13. Bhadar	* Jetpur to Ratia (Junagarh)	Jetpur & Dhoraji Seweage	BOD-33	Gujarat
14. Khari	* Lali village, Ahemdabad		BOD-92-675	Gujarat
15. Kolak	* Vapi to Patalia.	Vapi Industrial township Phase—III,IV & Daman Industrial area	BOD-11-35	Gujarat

1	2	3	4	5
16. Par	* Vapi to Patalia	Atul township & Industrial waste water, Pardi & Umarkhadi waste water	BOD-27	Gujarat
17. Ghaggar	* Interstate border with Punjab to Ottu wier at Sirsa	Industrial & Municipal waste from Sirsa	BOD-8-50	Haryana
18. Yamuna	* Okhla to Kosi Kalan	Industrial & Domestic waste from Faridabad & Palwal	BOD-16	Haryana
19. Markanda	* Kala Amb D/S to Haryana Border	Industrial & Domestic waste from Kala Amb	BOD-55 Colour-1009 Hazen	Himachal Pradesh
20. Bhadra	* Maleshwaram to D/S of Bhadravathi	Industrial & Domestic waste from Bhadravathi	BOD-7.2	Karnataka
21. Tunga	* D/S of Shimoga	Shimoga Sewage	BOD>6	Karnataka
22. Kali	* Along Dandeli Town	West Coast Paper Mill waste	BOD>6	Karnataka
23. Tungabhadra	* Harihar D/S to Hara eahalli Bridge..	Harihar Sewage & Grasim waste	BOD-6-8	Karnataka
24. Khan river	* Indore city to confluence with Chambal	Indore-sewage	BOD-65-120	M.P.
25. Kshipra	Ujjain to confluence with Chambal	Ujjain sewage	BOD-8-24	M.P.
26. Chambal	* D/S of Nagda	Industrial Waste-Grasim & Nagda Sewage	BOD-8-24	M.P.
27. Tapi	* D/S of Nepanagar to Burhanpur city	Domestic & Industrial waste water from Nepanagar & Burhanpur	BOD>6	M.P.
28. Godavari	* Nasik to (Raher) Nanded	Sewage from Nasik, Chanderpur, Nanded, Raher	BOD-6-66	Maharashtra
29. Kalu	* Atale village to Confl. with Ulhas		BOD-6-10	Maharashtra
30. Ulhas	* Mohane to Baddapur	Industrial & Domestic runoff Ulhasnagar	BOD-6-8	Maharashtra
31. Weinganga	* D/S Ashti	Ashti town	BOD-6-7	Maharashtra
32. Panchganga	* Along Ichalkaranji	Ichalkaranji	BOD-7-25	Maharashtra
33. Wardha	* Along Rajura village	Paper mill waste	BOD-6-8	Maharashtra
34. Bhima	* Pargaon to Confluence with river Daund	Pune—Sewage Nira-discharge	BOD-6.5	Maharashtra
35. Mula & Mutha	* D/S Pune city	City Sewage of Pune	BOD-6.7	Maharashtra
36. Bhatsa	* D/S of Shahpur Industrial township.	Industrial township—Shahpur	BOD>6	Maharashtra

1	2	3	4	5
37. Patalganga	* Khopoli to Esturaine region	Industrial & Municipal sewage from Khopoli, Rasayani & Paundh	BOD>6	Maharashtra
38. Kundalika	* Along Roha city	Roha city sewage	BOD-6-6.5	Maharashtra
39. Krishna	* Dhomdam to Sangli	Sewage & Industrial waste from Karnal & Sangli	BOD-6-8	Maharashtra
40. Tapi	* M.P. Border to Bhusaval	Bhusaval Sewage	BOD-6-9	Maharashtra
41. Girna	* Malegaon to Confl. with Tapi	Malegaon Sewage	BOD-6-12	Maharashtra
42. Nira	* Along Pulgaon	Pulgaon Cotton Mill	BOD-6-21	Maharashtra
43. Kharkhala	* Near Sutnga Khlieri, Jaintia Hills		BOD-8-10	Meghalaya
44. Brahmani	* Panposh D/S to Dharamsala	Sewage & Industrial waste from Panposh, Rourkela, Talcher, Dharamsala	BOD-6-7	Orissa
45. Ib	* Sundargarh to Confl. With Mahanadi	Sewage & Industrial waste from Sundargarh, Jharsuguda, Brajrajnagar	BOD-6-9	Orissa
46. Mahanadi	* Cuttack D/S	Cuttack Sewage	BOD-6-8	Orissa
47. Kuakhai	* Along Bubhaneswar	Bubhaneswar-Sewage	BOD>7	Orissa
48. Kathjodi	* Along Cuttack	Cuttack Sewage	BOD 6-12.3	Orissa
49. Satluj	* D/S of Ludhiana	Sewage from Ludhiana and Jalandar	BOD 8-14.4	Punjab
50. Beas	* D/S of Mukerian	Industrial discharge from Goindwal and Mukerian	BOD-8.4-20	Punjab
51. Ghaggar	* Mubarkpur to Sardulgarh	Municipal & Industrial discharge from Patiala, Sukhna paper mills & Derra Bassi	BOD-6.4-50	Punjab
52. Ghaggar	* Ottu weir to Hanumangarh	Industrial & domestic waste from Haryana & Punjab	BOD>6	Rajasthan
53. Chambal	* D/S Kota city	Industrial & Domestic waste from Kota	BOD 6-6.4	Rajasthan
54. Banas/Berach river	* Udaipur to Chittorgarh	Municipal waste from Udaipur & Chittorgarh	BOD>6	Rajasthan
55. Vaigai	* Along Madurai	Madurai-Industrial & Domestic wastewater	BOD-7-9	Tamil Nadu

1	2	3	4	5
56. Palar	* Vaniyambadi	Vaniyambadi-Industrial & Municipal Wastewater	BOD>6	Tamil Nadu
57. Adyar	* Along Chennai	Chennai-Industrial & Municipal Wastewater	BOD>6	Tamil Nadu
58. Coovum	* Along Chennai	Chennai-Industrial & Municipal wastewater	BOD>6	Tamil Nadu
59. Tambiraparani	* Papavinasam to Arunuganeri	Madura Coats Indusitrial waste	BOD-6-13	Tamil Nadu
60. Noyyal	* Along Coimbatoor, Tirupur, Palyanakotti	Industrial & domestic wastewater from Coimbatoor, Tirupur, Palyanakotti	BOD>6	Tamil Nadu
61. Cauvery	* D/S of Mettur Dam to Erode city	Municipal sewage of Erode	BOD-6.4-7	Tamil Nadu
62. Ranichu	* Along Ranipur	Municipal Wastewater Ranipur	BOD-24	Sikkim
63. Yamuna	* Kosi Kalan to confl. with Chambal	Sewage from Agra, Vindra-van, Mathura & Etawah	BOD-6-37	Uttar Pradesh
64. Hindon	* Saharanpur to Confl. With Yamuna	Sewage & Industrial effluent from Saharanpur, Muzaffar Nagar & Ghaziabad	BOD-9-36	Uttar Pradesh
65. Western Kali	* Muzaffar Nagar to Confluence with Hindon	Sewage & Industrial effluents from Muzaffar Nagar & Mansoorpur	BOD-21-44	Uttar Pradesh
66. Buri Yamuna	* Pilkhani to Confluence with Yamauna	Industrial effluent of Pilkhani Distillary	BOD>6	Uttar Pradesh
67. Kali Nadi Eastern	* Meerut to Kannauj	Industrial and Municipal sewage from, Meerut, Modi-nagar, Bulandsahr, Hapur, Gulwati and Kannauj	BOD-43-135	Uttar Pradesh
68. Gomti	* Lucknow to Confluence with Ganga	Sewage & Industrial effluent from Lucknow, Sultanpur, Jaunpur	BOD 6-8.2 BOD 6-7.6	Uttar Pradesh
69. Ganga	* Kannauj to Kanpur D/S	Discharge through Kalinadi & Ramganga sewage & Industrial effluent from Kannauj and Kanpur	BOD 6-10	Uttar Pradesh
70. Ganga	* Varanasi D/S	Varanasi sewage & Industrial effluent	BOD 6.5-16.5	Uttar Pradesh
71. Damodar	* Durgapur to Haldia	Industrial waste & sewage from Durgapaur & Asansol	BOD 6.4-32	West Bengal